

Integrated Well Intervention Solution Helps Reduce Rig Time During Plug and Abandonment

DRILL TECH® DEBURR MILL AND RTTS® PACKER ENABLE WELLBORE CLEANOUT AND COMMUNICATION TEST IN SINGLE TRIP

OFFSHORE, CANADA

CHALLENGE

- » Reduce rig time and costs of traditional P&A operations, without negatively affecting service quality

SOLUTIONS

- » Deploy a combination of Halliburton wellbore cleanout and service tools to enable communication testing and cleanout in a single trip
- » Deburr perforations and scrape setting area to help minimize equipment damage and enable setting of equipment inside casing

RESULT

- » Integrated well intervention solution saved 20 hours of rig time equivalent to USD 300,000. Effective cleaning enabled successful setting of the RTTS packer and EZ Drill SVB squeeze packer

OVERVIEW

An operator planning plug and abandonment (P&A) of five offshore production wells in Canada wanted to minimize the associated rig time and costs of operations. Prior to P&A, the operator needed to evaluate the cement behind the casing and clean the wellbore, packer setting areas and perforations, which typically requires a separate run. Additionally, the cement volume needed to be calculated for a subsequent squeeze job through a drillable cement retainer.

Halliburton proposed a single-trip solution to conduct the communication test at the same time as the wellbore cleanout, which included deburring the upper perforations and scraping the packer setting areas.

CHALLENGE

The operator wanted to reduce the number of runs required to clean the wellbore, deburr perforations, clean the packer setting areas, and perform the communication test utilizing rotational and non-rotational tools.

To confirm the cement, the operator planned a communication test between two sets of perforations at 700 and 200 meters measured depth (MD), with an RTTS® packer set between the perforated zones. Pumped fluid would then be circulated up through the lower perforations to clean the annulus between the 9 5/8-inch production and 13 3/8-inch surface casing on each well. A dyed pill added to the fluid would help facilitate cement volume calculation for a subsequent cement squeeze through an EZ Drill® SVB squeeze packer.

